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numbers; and citations of separate works ought to include place and name of publisher, edition, and pagination. This is especially necessary in a work like the present one which will be an important volume of reference for years to come. We would prefer to see vernacular names of species in text set off with capital initials, and the running page heads would be much more useful with vernacular names of species in place of the title of the work. The egg records seem to be too condensed. A brief analysis of the season, or a graphic representation of the data, especially where such a wealth of material has been examined, would have been highly worth while. But all of these are minor points.

We strongly commend the segregation of material under subject heads in the species chapters, this being an arrangement which greatly facilitates reference work. The rather complete accounts of molts and plumages bring together for the first time as regards our American *Pygopodes* discussion of this important subject. In the discussion of distribution the relegation of "casuals" to a separate category is highly satisfactory. Finally, the illustrative material calls for special comment, that from the camera even more than the colored plates of eggs, as we realize from personal experience the effort involved in obtaining satisfactory photographs of living birds. In this connection it would seem as though the plate captions could easily have been placed on the plates and thereby obviated the need of having to refer to the list of captions in the back of the book. The interpolation of the plates in the text, adjacent to the accounts to which they pertain, is a very handy arrangement.

We congratulate Mr. Bent upon the success which he has attained in his initial volume and trust that further contributions of like or greater merit may be forthcoming in the not distant future.—TRACY I. STORER.

MINUTES OF COOPER CLUB MEETINGS

NORTHERN DIVISION

AUGUST.—A special meeting of the Northern Division was held on August 13, 1919, at eight p. m., to meet Dr. Witmer Stone of Philadelphia. The meeting was called to order by the President, Dr. Evermann. Since no objection was offered by members present, the regular meeting for the month of August was declared omitted. Members present were Mesdames Allen, Griffin, Grinnell, Kelly, Pringle and Roe; Messrs. Bell, Carriger, Coggins, Evermann, Grinnell, Labarthe, Mailliard, Martin, Storer, and White. Visitors were Mrs. Coggins, Mrs. and Miss Evermann, Miss Potter, Dr. and Mrs. Stone, Mrs. Swarth, and Mrs. Wilcox.

Mr. Arthur Brown, 359 Monadnock Building, San Francisco, and Miss Josephine Gieselhart, Concord, California, were elected to membership in the Club. Elections by the Southern Division in April and May were ratified. Mr. W. Otto Emerson, Palm Cottage, Hayward, and Mrs. Mary Ames Van Dyke, 1545 LeRoy Ave., Berkeley, were proposed for membership, the former, by Mr. Carriger, the latter by Mr. Storer. Dr. Evermann reported that a letter from the manager of the Union Oil Company promised prompt installment of machinery to prevent its discharge of oil on the waters of the Pacific. The Secretary of the Club was instructed to request the committee on the licensing of cats to present a report at the next meeting.

Mr. Joseph Mailliard read a series of letters from Dr. F. M. Chapman relating to memorials for Col. Roosevelt or Mr. William Brewster. The following committee was appointed, Joseph Mailliard, Joseph Grinnell and H. W. Carriger.

Business disposed of, the Club was privileged to listen to a most interesting account of Dr. Stone's experiences in the Chiricahua Mountains, in southeastern Arizona. Of the seventy-five or more species mentioned by Dr. Stone fully a third were unfamiliar to the average California ornithologist. Meeting adjourned.—AMELIA S. ALLEN, *Secretary*.

SEPTEMBER.—The September meeting of the Northern Division was held at the Museum of Vertebrate Zoology on the evening of the 18th, at eight o'clock. In the absence of Dr. Evermann, Mr. Labarthe, the Vice-president, presided. The members present were: Mesdames Allen, Blake, Bridges, Davidson, Griffin, Grinnell, Gunn, Kibbe, Pringle, Roe, Thompson, and Wythe, Messrs. Bassett, Bell, Bryant, Carriger, Dixon, Grinnell, Hunt, Kibbe, Labarthe, Lastreto, Moffitt, Morley, McLean, Noack, Palmer, Storer, Swarth, White, and Wright. Visitors present were: Mesdames Ames, Bassett, Bryant, Mann, Raphael, Rose, Storer, Swarth, Thompson, and Wilcox, and Mr. Blake.

The minutes of the August meeting of the Northern Division were read and approved, and the June, July and August records of the Southern Division were read. Mr. W.

Otto Emerson, and Mrs. Mary Ames Van Dyke were elected to membership. July and August elections in the Southern Division also were ratified. Mrs. Kelley proposed the name of Mrs. E. C. Pitcher, Hayward, and Miss Davidson proposed Miss Elizabeth Hendren, Occidental, California.

Mr. Kibbe, the sole surviving member of the committee on the licensing of cats, then reported the results of the investigations of this committee and recommended that action be confined to an attempt to amend the city ordinances as they apply to the licensing and impounding of dogs, by inserting the word "cat" or "cats". A motion made by Dr. Grinnell and seconded by Dr. Bryant provided that the report and recommendation of the committee be adopted by the Club, and that the committee be given broad powers to proceed in its efforts to get the amendment adopted by the City Council. The motion was carried. A motion by Mr. Lastreto, seconded by Mr. Carriger, that the committee be discharged with thanks, that a new committee be appointed, including Mr. Kibbe as one of its members, to carry out the recommendations of the former committee, was lost.

Dr. Bryant then entertained the Club with an account of how six adults and two babies went, with the help of four pack-horses, "A-Birding Down the Backbone of the Sierra", from the region of Lake Tahoe to Yosemite Valley. Photographs and specimens helped to make more vivid the wonderful experience such a trip affords to the enthusiastic ornithologist and mountaineer.—AMELIA S. ALLEN, *Secretary*.

OCTOBER.—The regular meeting of the Northern Division was held at the Museum of Vertebrate Zoology the evening of October 16, 1919. As both the President and the Vice-President were absent, Dr. Grinnell was called upon to preside. The following members were present: Mesdames Allen, Bamford, Bridges, Davidson, Kibbe, Pringle, and Wythe; Messrs. Bryant, Carriger, Dixon, Grinnell, Hunt, Kibbe, Little, Mailliard, Morley, Storer, and Swarth. Visitors were Miss Mackay, Mrs. Mead, Miss and Mrs. Swarth.

The minutes of the September meeting of the Northern Division were read and approved. The September minutes of the Southern Division were read by title only. Miss Elizabeth Hendren, and Mrs. E. C. Pitcher, were elected members of the Club. Elections of September 28 of the Southern Division, namely, of Richard Harlow, Joseph

T. Greenleaf, Jr., James Haynes Hill, Loyal Edgar Smith, A. C. Johnson, and Mary Cheney, were ratified. New names proposed were as follows: Miss Isabel Ames, San Francisco, by Dr. H. C. Bryant; Mrs. Rowland B. Dodge, Berkeley, by Dr. William F. Badé; Mr. Lyle R. Fletcher, Norton, Kansas, by Mr. H. W. Carriger; Francis Harper, Biological Survey, Washington, D. C., by Mr. Alexander Wetmore; Mr. H. M. Harrison, Cambridge, Maryland, by Mr. H. W. Carriger; Miss Susan Mackay, Berkeley, by Mrs. J. T. Allen; Mrs. Edwin B. Mead, Berkeley, by Mrs. J. T. Allen; Mrs. Ernest B. Price, Piedmont, by Miss Margaret W. Wythe; and Raymond Wheatley Moore, Washington, D. C., by Dr. Joseph Grinnell, on behalf of Dr. T. S. Palmer and Mrs. Vernon Bailey.

The paper for the evening was presented by Professor S. Griswold Morley on the subject "Dogs, Birds and Humanity", and dealt with fundamental problems connected with human interpretation of animal behavior. The discussion which followed resulted in an agreement that more general banding of birds might produce evidence sufficient for deciding many moot questions such as that regarding a permanent marital tie among birds. Many seasonal observations were reported before the Club adjourned.—AMELIA S. ALLEN, *Secretary*.

SOUTHERN DIVISION

SEPTEMBER.—Regular monthly meeting of the Southern Division was held at 3 P. M., September 28, at the home of Dr. L. H. Miller, 6066 Hays Ave., Los Angeles. Twenty-four members and four visitors were in attendance.

Minutes of the August meeting were read and approved. On motion by Dr. Rich, seconded by Dr. Esterly, the persons whose names were proposed at the previous meeting were declared elected. New names were: Miss Ruth A. Ledeg, Los Angeles, by Dr. L. H. Miller; Richard F. Williams, Upper Montclair, N. J., by W. Lee Chambers; Chas. F. Hedges, Miles City, Mont., by Aretas A. Saunders; Mrs. W. L. Brownlee, Los Angeles, by L. E. Wyman; also two from the Northern Division.

The invitation of Mr. W. Leon Dawson to hold the October meeting at the Museum of Comparative Oology, in Santa Barbara, on the 25th of that month, was accepted on motion by Dr. Rich, seconded by Dr. Esterly. Mr. Law, one of the Business Managers of the CONDOR, who plans to make Berkeley

his home, asked authority to change the mailing address of the CONDOR from Hollywood to that city. His motion to this effect, seconded by his fellow business manager, Mr. Chambers, was carried.

Different members who have been in the field recently were then called upon. Mr. Law related some of his experiences in the Chiricahua Mountains, Arizona, where he had spent several months. Mr. Howell told of a trip up the coast and into southern Oregon, in the course of which he visited breeding colonies of petrels on an island near Crescent City, and had the Oregon Jay as a guest at his table and alighting on his head.

Formal matters disposed of, members and friends applied themselves to the less formal task of caring for the refreshments set before them by Dr. and Mrs. Miller. An hour spent in this way and in general sociability completed the meeting, which was declared by all to have been a most enjoyable occasion, and the hope was expressed that with each such occasion the worthy hosts would consider the custom more firmly established than before. Adjourned.—L. E. WYMAN, *Secretary*.

OCTOBER.—Regular monthly meeting of the Southern Division, was held at the Museum of Comparative Oology, Santa Barbara, October 25, 1919, at the invitation of the Director and Trustees of that institution. The meeting was preceded by introductions to twenty or more members of the Museum corporation, with whom the Cooper Club members enjoyed an excellent supper and social hour before the formal Club meeting. In the absence of both presiding officers Mr. Dawson was acclaimed chairman of the meeting. Other members present were Messrs. Badger, Brouse, Colburn, Daggett, Gilman, Hanna, Hanaford, Nokes, L. G. Peyton, S. B. Peyton, Reis, Rittenhouse, Taylor, and Wyman.

Minutes of the September meeting were read and approved. Applicants whose names were presented at that meeting were declared elected, on motion by Mr. Daggett that the Secretary be instructed to cast a favoring vote. The name of Louis E. Hoffman, Los Angeles, sponsored by Dr. L. H. Miller, was presented for membership.

The Chairman then called upon such visiting members as had collected oologically to relate the experience that yielded the most valuable sets of eggs, was the most difficult, or the most dangerous, and responses re-

ceived proved highly entertaining. Motion by Messrs. Daggett and Taylor, seconded by Dr. Nokes, that a vote of thanks be extended to Mr. Dawson and the Museum of Comparative Oology for the warm reception tendered the visiting Club members, was carried, and the meeting adjourned to inspect the most excellent collection of eggs and nests housed in that Museum. Adjourned.—L. E. WYMAN, *Secretary*.

NOVEMBER.—Regular monthly meeting of the Southern Division was held at the Museum of History, Science and Art, at 8:00 P. M., November 25. President Miller was in the chair, with other members present as follows: Messrs. Appleton, Brown, Colburn, Daggett, Howell, Law, Nokes, Rich, Robertson, Stivers, Van Rossem and Wyman; Mrs. J. E. Law, Mr. Ross and Mrs. Nokes were visitors.

Minutes of the October meeting were read and approved. Mr. Louis Hoffman, whose name was presented at that meeting, was elected to membership. New names presented were: Roland C. Ross, Pasadena, by L. H. Miller; Howard C. Illo, Los Angeles, by A. E. Colburn; N. Hollister, National Zoological Park, Washington, D. C., by A. B. Howell; Mrs. Milcent H. Lee, El Cajon, by Frank Stephens; Guffing Bancroft, San Diego, by A. M. Ingersoll; Griffith McClelland Dings, St. Louis, Mo., F. R. Cole, Palo Alto, John Williams, St. Marks, Fla., and Benjamin Adams, Brooklyn, N. Y., by W. Lee Chambers. The following names were received from the Northern Division: Mary Ames Van Dyke, Theodore C. Frye, and W. Otto Emerson.

A letter from George Willett, wintering on Prince of Wales Island, was read by the Secretary. This was of special interest, as that locality has hardly been touched ornithologically, and specimens and notes obtained by Mr. Willett should prove of unusual value. The matter of continuing the custom established several years ago, of exhibiting a series of birdskins at each meeting, was brought up by Dr. Rich. It was the concensus of opinion that these exhibits were a valuable feature of the meetings and that they should be continued.

In the general discussion that followed the formal meeting, field observations were presented by Mr. Law, Dr. Miller and the Secretary. All observers seemed to agree that a most unusual movement of birds is under way and that the winter will produce many new records. Adjourned.—L. E. WYMAN, *Secretary*.